

**DETAILED ACTION**

***Allowable Subject Matter***

- 1) Claims 1-28 are allowed.
- 2) The following is an examiner's statement of reasons for allowance: the Prior Art made of record fails to teach or suggest a method for producing hydrogen and/or oxyhydrogen comprising the steps of arranging water between a pair of electrodes; also arranging an electrically non-conductive ion exchanger within the water and directly between the electrodes without any intervening membrane; capturing and retaining hydrogen and/or oxyhydrogen adhered to the ion exchanger by ionic bonding and/or van der Waals forces being released in the electrolysis. This configuration provides increased efficiency and reaction rate of the electrolytic method and device. There was not found a teaching in the Prior Art suggesting modification of the conventional method in order to obtain the features of the instant invention.
- 3) Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

- 4) Any inquiry concerning this communication or earlier communications from the examiner should be directed to ZULMARIAM MENDEZ whose telephone number is

(571)272-9805. The examiner can normally be reached on Monday-Friday from 9am to 5pm.

- 5) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Barton can be reached on 571-272-1307. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 6) Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Harry D Wilkins, III/  
Primary Examiner, Art Unit 1723

/Z. M./  
Examiner, Art Unit 1723